Devanshu Patil

Data Scientist

Location: Pune, India
Date of birth: 11-09-2003
Number: +91 9923011792
devanshupatil1712@gmail.com
LinkedIn | GitHub
My Portfolio

Data Scientist with hands-on experience building and deploying Python applications, with practical exposure to machine learning, NLP, and Generative AI (RAG systems). Strong in core Python, object-oriented programming, modular design, and end-to-end delivery from data pipeline to deployed interface.

Professional experience

Freelancing *04.2026 – 07.2026*

- Working on creating AI Native Industrial Software leveraging the use of IoT and AI using technologies such as node.js, PostgreSQL, etc.

Project Studio - Bangalore | Data Analytics Intern *11.2025 – 03.2026*

- Working on Apache Superset and Metabase platforms for SQL-based data analysis and dashboard/chart creation
- Developing and deploying end-to-end automation workflows using n8n
- Gaining exposure to the API Template platform for PDF generation and automation

QnQ Solutions - | Freelancing *06.2025 – 11.2025*

- Built an end-to-end manufacturing analytics solution using Power BI to evaluate profitability, optimize inventory, and improve production efficiency through OEE, revenue, and process variability (MAPE) analysis.
- Analyzed multi-sheet manufacturing and sales dataset.
- Provided Shift-wise comparison for improving employee efficiency.

Corizo | Data Science Intern *01.2024 – 04.2024*

- Contributed to all stages of data analysis.
- Utilized Python, R, and SQL for tasks such as data collection, cleaning, and interpretation.
- Created data visualizations using libraries like Matplotlib & Seaborn to communicate insights and findings effectively.

Education

IIT Madras | Bachelor's Degree in Data Science and its Applications *01.2023* - current

- Statistics, Mathematics, Python Programming, Computational Thinking, Machine Learning Foundations
- Event Co-Ordinator with other group leaders, deputy secretary, secretary, and responsible higher authorities of IIT Madras BS Degree Program for Technical Events and House Website Building

Zeal College of Engineering and Research (SPPU) *12.2021 - 06.2025*

- BE in Computer Engineering
- SGPA: - 8.53

HSC – Higher Secondary Certificate. *06.2019 - 05.2021*

- Rao Junior College of Science, Pune, India
- Grade- 92.67%

The Council for the Indian School Certificate Examinations (CISCE) *06.2011 - 05.2019*

- Blue Ridge Public School, Pune, India
- Grade - 90%

Technical Skills

- **Data Science: -** Machine Learning, Data Analysis, Data Visualization, Statistical Modeling, Dashboard Design, Gen AI, Agentic AI
- **Databases: -**MySQL, MongoDB

- **Programming Language: -** Python (OOP, Modular Design, Unit Testing), SQL, HTML, CSS
- **Development & Deployment:** Git, GitHub, Docker, CI/CD (GitHub Actions), virtual environments, unit testing
- **Libraries & Frameworks: -** Pandas, NumPy, Scikit-learn, TensorFlow, Keras, Matplotlib, NLTK, Seaborn, Pytorch, PySpark
- **Cloud Technologies: -** AWS, Azure, GCP
- **Other Software's/Tools: -** Power BI, Tableau, Adobe Premiere Pro 2021

Projects

o **NeuroRAG (Intelligent Mental Health Code & Diagnosis Assistant)**:

- Developed a Retrieval-Augmented Generation (RAG) system leveraging to answer natural language queries from mental health documents. Implemented document ingestion, semantic embeddings, vector search, and LLM-based response generation with both CLI and Streamlit web interfaces. Enhanced system with dynamic PDF uploads, response caching, and MMR-based retrieval reranking for improved accuracy.

o **Advanced Overspeed Detection system**:

- Utilized streamlit for GUI development
- Used yolo (You Only Look Once) model

o **Stock Price Prediction - Financial Time-Series Forecasting** :

- Built an LSTM-based forecasting model on historical equity data; handled non-stationarity, sliding-window sequence generation, and train/test splits respecting temporal order. Achieved 88.60% directional accuracy. Implemented as a modular Python pipeline.

o **Wine Quality Analysis**:

- Developed a classification model using Random Forest to predict wine quality based on physicochemical features, achieving 92.18% accuracy after hyperparameter tuning.

Published Research Work

- **Design and Implementation of a Real-Time Vehicle Overspeed Detection System Using YOLOv8, Optical Character Recognition, and Dual-Camera Analytics** *06.2025*
- **Advanced Over Speeding Detection System based on Time, Distance & Tyre Circumference** *10.2024*

Professional Development

AI Meet for Google for Developers *Geeky Ants | 07.2025*
NLP Hands-On *PICT, Pune | 09.2023 – 10.2023*

Certificates

- Foundation Level BS Degree in Data Science and it's Applications (IIT Madras)
- NPTEL Certification on Introduction to Data Engineering Using Azure
- Certificate for Natural Language Processing (2023) by Pune Institute of Computer Technology (PICT)

Reference

Available upon request